



OIPE

DATE: 11/26/2001 RAW SEQUENCE LISTING TIME: 15:04:21 PATENT APPLICATION: US/09/828,423

Input Set : N:\Crf3\RULE60\09828423.txt Output Set: N:\CRF3\11262001\1828423.raw

SEQUENCE LISTING

```
C--> 4 (1) GENERAL INFORMATION:
             (i) APPLICANT: Hillman, Jennifer L.
                            Guegler, Karl J.
      7
                            Patterson, Chandra
            (ii) TITLE OF INVENTION: GROWTH-ASSOCIATED TRYPSIN-TYPE
      8
                                      INHIBITOR HEAVY CHAIN PRECURSOR
C--> 10
           (iii) NUMBER OF SEQUENCES: 5
     11
     13
            (iv) CORRESPONDENCE ADDRESS:
                   (A) ADDRESSEE: Incyte Pharmaceuticals, Inc.
     15
                   (B) STREET: 3174 Porter Drive
     16
     17
                   (C) CITY: Palo Alto
                                                                ENTERED
      18
                   (D) STATE: CA
      19
                   (E) COUNTRY: USA
      20
                   (F) ZIP: 94304
              (V) COMPUTER READABLE FORM:
      21
                   (A) MEDIUM TYPE: Diskette
      23
                   (B) COMPUTER: IBM Compatible
      24
                   (C) OPERATING SYSTEM: DOS
      25
                    (D) SOFTWARE: Word Perfect 6.1/MS-DOS 6.2
      26
             (vi) CURRENT APPLICATION DATA:
      27
                    (A) APPLICATION NUMBER: US/09/828,423
       29
                    (B) FILING DATE: 05-Apr-2001
 c--> 30
  C-->31
                    (C) CLASSIFICATION:
             (vii) PRIOR APPLICATION DATA:
       32
                    (A) APPLICATION NUMBER: 09/388,774
       34
       35
                    (B) FILING DATE:
            (viii) ATTORNEY/AGENT INFORMATION:
       36
                    (A) NAME: Cerrone, Michael C
                     (B) REGISTRATION NUMBER: 39,132
       39
                     (C) REFERENCE/DOCKET NUMBER: PF-0505 US
       40
               (ix) TELECOMMUNICATION INFORMATION:
       41
                     (A) TELEPHONE: 650-855-0555
        43
                     (B) TELEFAX: 650-845-4166
        44
        45
                     (C) TELEX:
          (2) INFORMATION FOR SEQ ID NO: 1:
        46
                (i) SEQUENCE CHARACTERISTICS:
        49
                     (A) LENGTH: 942 amino acids
        51
        52
                     (B) TYPE: amino acid
                     (C) STRANDEDNESS: single
        53
        54
                     (D) TOPOLOGY: linear
        55
              (vii) IMMEDIATE SOURCE:
                      (A) LIBRARY: UTRSNOT02
         57
         58
                      (B) CLONE: 688183
                (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
         59
         63 Met Leu Leu Leu Gly Leu Cys Leu Gly Leu Ser Leu Cys Val
         64
```



Input Set : N:\Crf3\RULE60\09828423.txt
Output Set: N:\CRF3\11262001\I828423.raw

	_							_	_		•	_	_		
65	Gly	Ser	Gln	Glu	Glu	Ala	Gln	Ser	Trp	Gly	His	Ser	Ser	Glu	
66					20					25					30
67	Asp	Gly	Leu	Arg	Val	Pro	Arg	Gln	Val	Arg	Leu	Leu	Gln	Arg	
68					35					40					45
69	Lys	Thr	Lys	Pro	Leu	Met	Thr	Glu	Phe	Ser	Val	Lys	Ser	Thr	Ile
70					50					55					60
71	Ile	Ser	Arg	Tyr	Ala	Phe	Thr	Thr	Val	Ser	Cys	Arg	Met	Leu	Asn
72					65					70					75
73	Arg	Ala	Ser	Glu	Asp	Gln	Asp	Ile	Glu	Phe	Gln	Met	Gln	Ile	Pro
74					80					85					90
75	Ala	Ala	Ala	Phe	Ile	Thr	Asn	Phe	Thr	Met	Leu	Ile	Gly	Asp	Lys
76					95					100					105
77	Val	Tyr	Gln	Gly	Glu	Ile	Thr	Glu	Arg	Glu	Lys	Lys	Ser	Gly	Asp
78					110					115					120
79	Arg	Val	Lys	Glu	Lys	Arg	Asn	Lys	Thr	Thr	Glu	Glu	Asn	Gly	Glu
80	-				125	_				130					135
81	Lys	Gly	Thr	Glu	Ile	Phe	Arg	Ala	Ser	Ala	Val	Ile	Pro	Ser	Lys
82	-				140		-			145					150
83	Asp	Lys	Ala	Ala	Phe	Phe	Leu	Ser	Tyr	Glu	Glu	Leu	Leu	Gln	Arq
84	•	•			155				•	160					165
85	Arq	Leu	Gly	Lys	Tyr	Glu	His	Ser	Ile	Ser	Val	Arg	Pro	Gln	Gln
86	_		-	-	170					175		_			180
	Leu	Ser	Glv	Ara	Leu	Ser	Val	Asp	Val	Asn	Ile	Leu	Glu	Ser	Ala
88			•	_	185			-		190					195
	Glv	Ile	Ala	Ser		Glu	Val	Leu	Pro		His	Asn	Ser	Arq	
90					200					205				_	210
91	Ara	Gly	Ser	Glv	Arg	Glv	Glu	Asp	Asp	Ser	Glv	Pro	Pro	Pro	Ser
92	5	1		2	215	1				220	4				225
93	Thr	Val	Ile	Asn	Gln	Asn	Glu	Thr	Phe	Ala	Asn	Ile	Ile	Phe	Lys
94					230					235					240
95	Pro	Thr	Val	Val	Gln	Gln	Ala	Ara	Ile	Ala	Gln	Asn	Glv	Ile	Leu
96					245			5		250					255
	Glv	Asp	Phe	Ile	Ile	Arq	Tvr	Asp	Val	Asn	Arq	Glu	Gln	Ser	Ile
98					260		-1	•		265					270
	Glv	Asp	Ile	Gln		Leu	Asn	Glv	Tvr		Val	His	Tvr	Phe	
100	-				275				- 4	280					285
		o Lvs	Asr	Leu			Leu	Pro	Lvs	Asr	val	. Val	Phe	e Val	Leu
102					290					295					300
		Ser	Ser	Ala			: Val	Glv	Thi			Arc	r Gli	n Th	r Lys
104	_				305			2		310			,		315
	_	o Ala	Te	Phe			Lei	His	Ast			Pro	G11	n Ası	Arg
106		,			320					325		,			330
		e Ser	- T1e	: T)e			Ser	Asn	Arc			. Val	Tri	o I.v.	g Asp
108					335					34(-		1		345
		T.AT	, T1e	Ser		-	· pro) Agr	Ser			r Ast	G1:	JJ	s Val
110					350					355		, <u>r</u>		1	360
		r Jle	Hie	His			Pro	o Thr	G1s			Asr	J14	2 A gi	n Gly
112	_				365					370					375
		a Lev	Glr	Arc			Arc	ı I'en	Lei			יע"ך	· Va	L Ala	a His
				5	,		:	, ~~~			1-	-1-			

Input Set : N:\Crf3\RULE60\09828423.txt
Output Set: N:\CRF3\11262001\I828423.raw

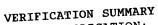
114					380					385					390
115	Ser	Gly	Ile	Gly	Asp	Arg	Ser	Val	Ser	Leu	Ile	Val	Phe	Leu	Thr
116					395					400					405
117	Asp	Gly	Lys	${\tt Pro}$	Thr	Val	Gly	Glu	Thr	His	Thr	Leu	Lys	Ile	Leu
118					410					415					420
119	Asn	Asn	Thr	Arg	Glu	Ala	Ala	Arg	Gly	Gln	Val	Cys	Ile	Phe	Thr
120					425					430					435
121	Ile	Gly	Ile	Gly	Asn	Asp	Val	Asp	Phe	Arg	Leu	Leu	Glu	Lys	Leu
122					440					445					450
123	Ser	Leu	Glu	Asn	Cys	Gly	Leu	Thr	Arg	Arg	Val	His	Glu	Glu	Glu
124					455					460					465
125	Asp	Ala	Gly	Ser	Gln	Leu	Ile	Gly	Phe	Tyr	Asp	Glu	Ile	Arg	Thr
126					470					475					480
127	Pro	Leu	Leu	Ser	Asp	Ile	Arg	Ile	Asp	\mathtt{Tyr}	Pro	Pro	Ser	Ser	Val
128					485					490					495
129	Val	Gln	Ala	Thr	Lys	Thr	Leu	Phe	Pro	Asn	Tyr	Phe	Asn	Gly	Ser
130					500					505					510
131	Glu	Ile	Ile	Ile	Ala	Gly	Lys	Leu	Val	Asp	Arg	Lys	Leu	Asp	His
132					515					520					525
133	Leu	His	Val	Glu	Val	Thr	Ala	Ser	Asn	Ser	Lys	Lys	Phe	Ile	Ile
134					530					535					540
135	Leu	Lys	Thr	Asp	Val	Pro	Val	Arg	Pro	Gln	Lys	Ala	Gly	Lys	Asp
136					545					550					555
137	Val	Thr	Gly	Ser	Pro	Arg	Pro	Gly	Gly	Asp	Gly	Glu	Gly	Asp	
138					560					565					570
139	Asn	His	Ile	Glu	-	Leu	\mathtt{Trp}	Ser	Tyr		Thr	Thr	Lys	Glu	
140					575	_				580			_		585
	Leu	Ser	Ser	Trp		Gln	Ser	Asp	Asp		Pro	Glu	Lys	Glu	
142			_		590					595		_			600
	Leu	Arg	Gln	Arg		Gln	Ala	Leu	Ala		Ser	Tyr	Arg	Phe	
144	_				605		_	_	_	610	_		_	_	615
	Thr	Pro	Phe	Thr		Met	гàг	Leu	Arg	_	Pro	vai	Pro	Arg	
146	_		_		620	_ 1		~ 1		625	- 1			a 1	630
	Asp	GTĀ	Leu	Glu		ALA	His	GTĀ	Met		ALA	Ala	Met	GIĀ	
148	a 1	n	**- 1	**- 1	635	~	**- 1	3	a1	640	~7	m h sa	~7 m	7770	645
	GIU	Pro	vaı	vaı		Ser	vaı	Arg	GIA		GIA	Thr	Gln	Pro	
150	D	T	T	T	650	D	Massa	~1 ~	Dwa	655	T1.0	T	т1 о	C 0.77	660
	Pro	Leu	Leu	глх		Pro	туг	GIN	PIO		116	гÃг	Ile	Ser	675
152	m1	a	77 1	•	665	3	D	TT2 -	71h -	670	*** 1	3	Dh a		
	Thr	ser	var	Asp	_	Asp	Pro	HIS	Pne		var	Asp	Phe	Pro	690
154	a		7	m1	680	~	nh -	7	77.	685	~1··	C1 m	Dwo	C1	
	Ser	Arg	Leu	THE	695	Cys	Pne	ASII	TTe	700	GIA	GIII	Pro	GTÄ	705
156	-1 -	T	3	T		C	2 ~~	111-1	7 ~~		Com	C1**	170 I	шь×	
	116	ьeu	Arg	neu	710	ser	ьзр	urs	wīd	715	SeT.	GTÅ	Val	T 11T	720
158	7 ~ ~	C1	~1	T 0	-	C1	71 ~	Dro	7 1 ~		Dro	λαν	C1 **	ui c	
160	ASII	GTÅ	GIU	пел	725	GTÅ	WIG	LIO	wid	730	FIO	MSII	Gly	IIIS	735
	T 170	C1 n	7 ~~	mh ∽		Tan	ሽድሞ	mb ~	TIC		Tle	T	Ile	Aen	
162	пÃр	GTII	wrd	TIIT	740	neu	ura	TIIT	116	745	116	neu	116	USII	750
102					740					143					, 50

Input Set : N:\Crf3\RULE60\09828423.txt
Output Set: N:\CRF3\11262001\1828423.raw

```
163 Pro Glu Arg Ser Tyr Leu Glu Ile Thr Pro Ser Arg Val Ile Leu
                                        760
                    755
165 Asp Gly Gly Asp Arg Leu Val Leu Pro Cys Asn Gln Ser Val Val
                    770
                                        775
                                                            780
167 Val Gly Ser Trp Gly Leu Glu Val Ser Val Ser Ala Asn Ala Asn
                                        790
                                                            795
                    785
168
169 Val Thr Val Thr Ile Gln Gly Ser Ile Ala Phe Val Ile Leu Ile
                    800
                                        805
                                                            810
170
171 His Leu Tyr Lys Lys Pro Ala Pro Phe Gln Arg His His Leu Gly
                    815
                                        820
                                                            825
172
173 Phe Tyr Ile Ala Asn Ser Glu Gly Leu Ser Ser Asn Cys His Gly
                                                            840
174
                    830
                                        835
175 Leu Leu Gly Gln Phe Leu Asn Gln Asp Ala Arg Leu Thr Glu Asp
                                                            855
176
                    845
                                        850
177 Pro Ala Gly Pro Ser Gln Asn Leu Thr His Pro Leu Leu Gln
                    860
                                        865
178
179 Val Gly Glu Gly Pro Glu Ala Val Leu Thr Val Lys Gly His Gln
                                                            885
                    875
                                        880
180
181 Val Pro Val Val Trp Lys Gln Arg Lys Ile Tyr Asn Gly Glu Glu
                    890
                                        895
                                                            900
183 Gln Ile Asp Cys Trp Phe Ala Arg Asn Ala Ala Lys Leu Ile
                                                            915
                    905
                                        910
185 Asp Gly Glu Tyr Lys Asp Tyr Leu Ala Ser His Pro Phe Asp Thr
                                                            930
                                        925
186
                    920
187 Gly Met Thr Leu Gly Arg Gly Met Ser Arg Glu Leu
                    935
188
193 (2) INFORMATION FOR SEQ ID NO: 2:
195
     (i) SEQUENCE CHARACTERISTICS:
              (A) LENGTH: 3636 base pairs
196
              (B) TYPE: nucleic acid
197
198
              (C) STRANDEDNESS: single
199
              (D) TOPOLOGY: linear
201
       (vii) IMMEDIATE SOURCE:
              (A) LIBRARY: UTRSNOT02
202
              (B) CLONE: 688183
203
        (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
205
207 CCCTGAGAGC GTCCCGCAGT GGCTGGAGCC CTGGGCGCTG CAAACGTGTC CCGCCGGGTC 60
208 CCCGAGCGTC CCGCGCCTC GCCCGCCAT GCTCCTGCTG CTGGGGCTGT GCCTGGGGCT 120
209 GTCCTGTGT GTGGGGTCGC AGGAAGAGGC GCAGAGCTGG GGCCACTCTT CGGAGCAGGA 180
210 TGGACTCAGG GTCCCGAGGC AAGTCAGACT GTTGCAGAGG CTGAAAACCA AACCTTTGAT 240
211 GACAGAATTC TCAGTGAAGT CTACCATCAT TTCCCGTTAT GCCTTCACTA CGGTTTCCTG 300
212 CAGAATGCTG AACAGAGCTT CTGAAGACCA GGACATTGAG TTCCAGATGC AGATTCCAGC 360
213 TGCAGCTTTC ATCACCAACT TCACTATGCT TATTGGAGAC AAGGTGTATC AGGGCGAAAT 420
214 TACAGAGAGA GAAAAGAAGA GTGGTGATAG GGTAAAAGAG AAAAGGAATA AAACCACAGA 480
215 AGAAAATGGA GAGAAGGGGA CTGAAATATT CAGAGCTTCT GCAGTGATTC CCAGCAAGGA 540
216 CAAAGCCGCC TTTTTCCTGA GTTATGAGGA GCTTCTGCAG AGGCGCCTGG GCAAGTACGA 600
217 GCACAGCATC AGCGTGCGGC CCCAGCAGCT GTCCGGGAGG CTGAGCGTGG ACGTGAATAT 660
218 CCTGGAGAGC GCGGGCATCG CATCCCTGGA GGTGCTGCCG CTTCACAACA GCAGGCAGAG 720
219 GGGCAGTGGG CGCGGGGAAG ATGATTCTGG GCCTCCCCCA TCTACTGTCA TTAACCAAAA 780
```

Input Set : N:\Crf3\RULE60\09828423.txt
Output Set: N:\CRF3\11262001\1828423.raw

		GCCAACATAA										
		TTGGGAGACT										
		GTTCTAAATG										
		AATGTGGTAT										
		AAGGATGCCC										
		GGATTTTCCA										
		ATCAGGGATG										
		GGGGCCCTGC										
		GACCGGAGCG										
		CACACCCTCA										
		ACCATTGGCA										
		TGTGGCCTCA										
		TACGATGAAA										
		GTGGTGCAGG										
234	GATCATCATT	GCGGGGAAGC	TGGTGGACAG	GAAGCTGGAT	CACCTGCACG	TGGAGGTCAC	1680					
235	CGCCAGCAAC	AGTAAGAAAT	TCATCATCCT	GAAGACAGAT	GTGCCTGTGC	GGCCTCAGAA	1740					
236	GGCAGGGAAA	GATGTCACAG	GAAGCCCCAG	GCCTGGAGGC	GATGGAGAGG	GGGACACCAA	1800					
237	CCACATCGAG	CGTCTCTGGA	GCTACCTCAC	CACAAAGGAG	CTGCTGAGCT	CCTGGCTGCA	1860					
		GAACCGGAGA										
		CTCACTCCCT										
		GAGGCCCACG										
		GCTGGCACGC										
		AAAACATCAG										
		GTGTGCTTCA										
		GACTCTGGTG										
		AAGAAACAGC										
		TATCTCGAGA										
		TGCAACCAGA										
		AATGTCACCG										
		AAGCCGGCGC										
		TCCAGCAACT										
		GACCCTGCAG										
		CCTGAGGCCG										
		ATTTACAACG										
		ATTGACGGGG										
		GGCCGGGGAA										
		GACAGTGATG										
		CTGGCAATTA										
		GGGCGAAGGG										
		CTGCCTCTTC										
		GCTAAATGCA										
		ATAAAGTAAG										
		GGCCAAGTTT										
		GTGGTGTTGC										
		TCCAGGCCAC										
		TTCTTGCAAG										
		AAAAGAAATT			ATAAAAAAAA	AAGAAAAAA						
		AAAAATAAAA					3636					
270	270 (2) INFORMATION FOR SEQ ID NO: 3:											



PATENT APPLICATION: US/09/828,423

DATE: 11/26/2001 TIME: 15:04:22

Input Set : N:\Crf3\RULE60\09828423.txt Output Set: N:\CRF3\11262001\1828423.raw

L:4 M:220 C: Keyword misspelled or invalid format, [(1) GENERAL INFORMATION:] L:10 M:220 C: Keyword misspelled or invalid format, [(ii) TITLE OF INVENTION:] L:30 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]

L:31 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]